

REPORT OF WELL ABANDONMENT

•		Bakersfield	, California
		October 6,	1987
Kwang U. Park ARCO OIL & GAS CO.			
P. O. Box 147 Bakersfield, CA 93302			
Your report of abandonment of well.	"Lieber" l	(Name and number)	
A.P.I. No. 029-79821 ,			
	fiel	d,Kern	County,
dated 08-24-87	received	08-24-87	has been
examined in conjunction with reco	rds filed in this of	fice, and we have det	termined that all of
the requirements of this Division ha	ave been fulfilled.		
			,
Blanket Bond DM:dp			
M			
Nary Status) Corf 4200)	·		
Cost 1200	<u>M</u>	G. MEFFERD State Oil and Gas Surery	jkor +
Y BIM	Ву	Muly	

E. A. WELGE, Deputy Supervisor

API NO. 029 - 79821

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Intention / Type	Abillo	Jan Mare							Ì		T T	
P-Report No.	487.4	530						•			• *	
Proposed Pool										,		
Completed Pool											1	
Status / Date	Abel/	4-29-87										*********
	Rec'd			Hold	Rec'd	Hold	Rec'd	Hold	Rec'd	Hold	Rec'd	Hold
History			<u> </u>									
Summary												
Signature										ļ		
Core	-											
SWS			<u> </u>									
Logs: E-Log											<u> </u>	
FDC/CNL/GR							<u> </u>					
CBL												•
CONDONIGAME												
FULL WAVE												
MST /MECRO												
Direct. Survey												·
T-Report												
Environ. Inspect.												
Location						A	l				L1	
Elevation												
Map No. Date Entered	w4-	2										
Date Entered Initials	W4- 10-6-	87										
Initials												
Drill Card	1					····						
Init. Prod. (Date)							·				·	
6 mos.Prod. (Date)				· ·								
Hold For Records (Date & Initials)												··
Records Approved (Date & Initials)	9-24-87	RR			···		***************************************		**		•	
Bond Eligible For Release (Date)							···					
E.D.P. Clerk	82:10	8/81		T		T I		1				
Confid. Clerk	1	'' ''' 									·	-
Form 121	10-2-8	7/	7									
Bond No.	_											
Date	BR	1		1				Į		l		
Form 150 (Release)							·					3350
Form 159			1						·			
(Final Letter)	10-6	87 <i>0</i>				1				ı		
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						-	Fina	Lette	er App	roval:	Sm 9/	14:30
····												-



Daily Well History-Final Report

Instructions: Prepare and submit the "Final Report" on the first Wednesday after allowable has been assigned or well is Plugged, Abandoned, or Sold.
"Final Report" should be submitted also when operations are suspended for an indefinite or appreciable length of time. On workovers when an official test is not required upon completion, report completion and representative test data in blocks provided. The "Final Report" form may be used for reporting the entire operation if space is available.

perator ARCO OIL AND GA: pudded or W.O. begun SPUD ate and depth s of 8:00 a.m.	-	OF NW CO	DRNER, Sec. A.R.Co. W.I. 1.0000 Date 4-18-8	OUNTY AND EVALU 28 T25S 00	R25E, M Total nu cost cei abandoi Hour 10	imber of wenter prior to nment of the	ells (active of plugging a is well	unity or inactive) on and Prior status	CORNIA Well no. 1	
WILDCAT uth. or W.O. no. R46419 API: 6 660 SOUTH & 200 perator ARCO OIL AND GA: pudded or W.O. begun SPUD ate and depth s of 8:00 a.m.	OO' EAST S COMPANY Complete record Ground El Total Dep Casing De Casing Size	OF NW CO	Lease or Unit LIEBER Title DRILL DRNER, Sec A.R.Co. W.I. 1.0000 Date 4-18-8	AND EVALU 28 T25S 00 7	R25E, M Total nu cost cei abandoi Hour 10	imber of wenter prior to nment of the	ells (active of plugging a is well	unity or inactive) on and Prior status	Well no.	
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SPUD ate and depth C s of 8:00 a.m.	Ground El Total Dep Casing De Casing Size	evation:	4-18-8 eported 284	A	10				if a W.O.	
s of 8:00 a.m.	Ground El Total Dep Casing De Casing Size	evation:	284			uremen				
,	Casing Do	th: 4201				' All Measurements KB = 2				
	Casing Do		PBD:	5' P1			ts KB =	20' Abov	e GL	
i	Casing Size	etall:			19 8	70' -	1569' (i 743' (i		unk. None	
	Size	I	 	1				I	T	
	13-3/8"	Top of Casing	Shoe Depth	Weigh (lb/ft		ade	New / Used	Hole Size	SX/CF Cement	
	, _	0'	40′	68#	K-5	5 BTC	New	As Cond	luctor	
	9-5/8"	0'	823′	47#	S-12	5 BTC	New	12-1/4"	370 sx	
	First	Mya - 20 oin - 32				<i>:</i>				
, .		WEL.	L PLUGGE	D AND AL	SANDONI	ED 4-2	9-87			
d TD		New 1	D							
eleased rig		Date	4201 '	•		5'				
0400 HOURS			4-29-87			Rotary (Cal Pac #3)				
assifications (oil, gas, etc.)				Type comp	letion (single	, dual, etc.)				
Oil - Dry Hole				Official res	servoir name(s	s)				
otential test data				I						
fell no. Date	Reservoir		Producing In	terval	Oil or gas	Test time	Produ Oil or		Gas per day	
ump size, SPM X length	Choke size	T.P.	C.P.	/ater %	GOR	Gravity corrected	Allow	able	Effective date	
			•	· .						
ne above is correct						1				
R. L. THOMAS	may to	-	Date	112/87	Title	TRICT	DRILLIN	G ENGINE	ER	
or form preparation and distribution se Procedures Manual, Section 10, rilling, Pages 86 and 87.	on,					•		Duk 8/		

4550 California Avenue Bakersfield, CA 93309 (805) 321-4061

Kwang W. Park District Drilling Superintendent

Number all daily well history forms consecutively as they are prepared for each well. Page no.

AR3B-459-3-C

Instructions: Prepare and submit the "Initial Report" on the first Wednesday after a well is spudded or works proposalloas are stated. Daily work prior to spudding should be summarized on the form giving inclusive dates only.

District WESTERN	•	County or Parish KERN COUNTY	AUG 2 4 1987	State CALIFORNIA
Field WILDCAT		LIEBER	DIVISION OF OIL & GAS BAKERSFIELD	Well no. 1
Auth. or W.O. no. R46419		DRILL AND EVAL	UATE	· · ·
660' SOUTH & 2	000' EAST of NW	Corner, Sec. 28, T25	S. R25E, MDB&M, Kern C	ounty
Operator ARCO OIL AND G	+ ²			A.R.Co's W.I. 1.000000
Spudded or W.O. begun		Date	Hour	Prior status if a W.O.
SPUD Date and depth	Complete record for each d	4-18-87	1000 HOURS	
as of 8:00 a.m.	Complete record for each of	ду геропео	•	
2 4-20-87	MUD: 8.8 ppg MIRU Cal Pac - 823'. CBU casing with s spacer ahead	#3. Spud at 1000 hr Wiper trip. CBU. shoe at 823', float c of 370 sx Class G +	(9-5/8" @ <u>s. 4-18-87</u> . Drill 12- POOH. <u>Run 20 jts of</u> <u>ollar at 744'</u> . Pump 3 3% CaCl ₂ mixed at 15.8	1/4" hole from 60' 9-5/8" 47# S-125 0 bbl Sepiolite ppg. Displace
	4-19-87. God		. Floats held. CIP a bbl cement returns. wellhead. NU BOPE.	
3 4-21-87	MUD: 9.1 ppg Test BOPE. ((9-5/8" @	
4 4-22-87	TD: 2740' (73	35') - RIH VIS: 43 hole 2005' - 2740'.	(9-5/8" @ POOH to clean packed	
5 4-23-87	MUD: 9.8 ppg	2740'. Drill 8-1/2"	(9-5/8" hole 2740' - 3611'.	,
6 4-24-87	MUD: 9.8 ppg Drill 8-1/2"		(9-5/8" Wiper trip. CBU. PORIH CDL/DSN/GR/ML.	· ,
9 4-27-87	MUD:	Run 4 RFT's. Wiper	(9-5/8" @ 3'. Run SWS (shot 30. trip. Run VSP with 1	recovered 26.
10 4-28-87	MUD: Finish VSP lo		(9-5/8" @ 0'. Plug #1: 145 sx Crs, 4-28-87. POOH. L	lass G + 3% CaCl ₂
The above is correct Signature	7-74-	Date Ti	tle	

The District Drilling Engineer Thomas

For form preparation and distribution, see Procedures Manual, Section 10, Drilling, Pages 86 and 87.

Number all daily well history forms consecutively as they are prepared for each well. Page no.



Instructions: This form is used during drilling or workover operations. If lesting, coring, or perforating, show formation name in describing work performed, Number all drill stem tests sequentially. Attach description of all cores. Work performed by Producing Section-will be reported on "Interim" sheets until final completion. Report official or representative test on "Final" form. 1) Submit "Interim" sheets when filled out but not less frequently than every 30 days, or (2) on Wednesday of the week in which oil string is set. Submit weekly for workovers and following setting of oil string until completion.

District WESTERN	County or Parish KERN COUNTY	CALIFORNIA .
Field WILDCAT	Lease or Unit LIEBER	Well no.
Date and depth as of 8:00 a.m. 6:00 AM	record for each day while drilling or workover in progress	

10-3/4 4-29-87 TD: 4201' (PBTD: Surface) - Rig released (9-5/8" @ 823')

POOH. Lay down excess pipe. RIH. Tag TOC of plug #1 at 1569'. DOG witnessed tag. POOH to 881'. Lay balanced plug from 881' - 743' with 56 sx Class G + 3% CaCl₂ mixed at 15.8 ppg. CIP at 1014 hrs, 4-28-87. DOG witnessed pumping of plug #2. POOH. Lay down pipe. ND BOPE. Cut off 9-5/8" casing 5' below ground. Set surface plug from 25' - 5' with 19 sx Class G + 3% CaCl₂ mixed at 15.8 ppg. CIP at 2230 hrs, 4-28-87. DOG waived witness of surface plug. Weld steel plate on casing stub. RD. Rig released at 0400 hrs, 4-29-87.

The above is correct

Signature R. L. Thomas Canada Date 3/12/87 Title District Drilling Engineer

For form preparation and distribution see Procedures Manual Section 10, Drilling, Pages 86 and 87

RECEIVED.

CORE LABORATORIES, INC.

Company Well : ARCO OIL & GAS CO. : "LIEBER" 1

Location: SEC.28-7255/R25E Co,State: KERN COUNTY, CA., CA.

Field

Coring Fluid: WATER BASE Elevation: 298' KB Formation

: MCFARLAND-NW FIFID DIVISION OF Thile GAS : N Offile GAS : 15428

KERSTELD : 24-APR-1987

API No. : 04-029-79821

Analysts: DIK AB

SIDE W A H ۲ COR Ħ ANALYS I S Ħ Ħ S ULT ß

NO ANALYSIS - GY SH	-					4068.0		
SD GY VFGR SLTY SCALC NO STN NO FLU	11.27	90.8	0.0	32.4	400.0	4010.0	1.5	19
SD GY VFGR VSLTY VFOS VCALC NO STN NO FLU	11.46 \$	88.8	0.0	26.0	100.0	3891.0	1.5	18
SD GY VFGR SLTY CALC FOS NO STN NO FLU	13.52	93.8	0.0	32.1	200.0	3878.0	1.5	17
SD GY VFGR SSLTY NO STN NO FLU	11.19	89.3	0.0	35.5	1300.0	3705.0	2.0	16
NO ANALYSIS - SLT GY VFGR SD	_					3480.0		
SD GY VFGR SLTY SCLY CALC FOS NO STN NO FLU	13.50 %	91.6	0.0	31.4	450.0	3427.0	1.7	15
SD GY VFGR VSLTY CLY CALC FOS NO STN NO.FLU	9.47 \$	91.7	0.0	33.9	80.0	3417.0	1.7	14
SD GY VFGR VSLTY LG CLY LAMS NO STN NO FLU	10.12 \$	88.1	0.0	34.8	55.0	3043.0	2.0	13
NO ANALYSIS - GY SH	~					2800.0		
NO ANALYSIS - GY SH	-					2480.0		
SAME	9.66 \$	80.3	0.0	38.4	40.0	2433.0	2.0	12
SD GY VFGR VSLTY LG CLY LAMS NO STN NO FLU	8.77 \$	79.1	0.0	38.5	50.0	2430.0	2.0	=======================================
NO ANALYSIS - GY SH	_	-				2395.0		
NO ANALYSIS - GY SH	_					2270.0		
NO ANALYSIS - GY SH	·					2262.0		•
SD GY VF-MGR SLTY SCLY FOS INCL NO STN NO FLU	12.55 s	94.9	0.0	35.2	600.0	2200.0	2.0	10
SD GY VF-CGR SSLTY NO STN NO FLU	14.24 s	87.5	0.0	29.6	2000.0	2176.0	2.0	•
SD GY-TN VF-FGR SSLTY NO STN NO FLU	12.98 s	59.8	0.0	33.9	1850.0	2133.0	1.7	.
SAME/CGR	13.05 s	91.1	0.0	28.3	2150.0	2130.0	2.0	7
SD GY VF-MGR SSLTY SCALC NO STN NO FLU	12.18 s	91.7	0.0	28.3	1800.0	2111.0	1.6	
SD GY VF-MGR SLTY SCLY FOS VCALC NO STN NO FLU	12.17 s	87.1	0.0	28.9	650.0	2103.0	1.7	5
SD GY VF-MGR SSLTY CALC CLY INCL NO STN NO FLU	11.23 s	61.5	0.0	32.5	1700.0	2083.0	1.5	4
SD GY VF-MGR SSLTY CALC NO STN NO FLU	10.88 s	87.1	0.0	27.5	2000.0	2070.0	1.7	3
SD GY VF-CGR SSLTY NO STN NO FLU	11.84 s	86.6	0.0	29.5	3000.0	2045.0	1.7	2
SD GY VF-CGR SSLTY FOS INCL NO STN NO FLU	16.46 S	89.1	0.0	28.8	2200.0	2043.0	1.7	1
	gm ·	*	*	34	₹.	ft	ij	
	E CHI	WATER	(POKE	(FLUIDS)	(EMPIRICAL)		REC.	NUMBER
DESCRIPTION	SAMPLE		;;;	POROSITY	PERMEABILITY	DEPTH	SAMPLE	SAMPLE
	_	SATURATION	SATU					

CONFIDENTIAL



CONFIDERITIAL

formation test summary UG $2.4\,$ 1987

Run 1

DIVISION OF OIL & GAS BAKERSFIELD

Test 1 Depth 2045 ft.

Test failed - Did not appear to have a good seat.

Hydrostatic

1214

Fm. pressure

814

Test 2

Depth 2043 ft.

Hydrostatic Drawdown

1320

Shutin

20 800

Fluid

Attempted fluid sample. plugged Rec 1000 cc mud filtrate. Pulled out of hole - cleaned sand out of tool and re-ran.

Run 2

Test 3 Depth 2105' Pressure only

Hydrostatic

1120 psi

Formation

840 psi

Test 4 Depth 2085' Pressure only

Hydrostatic

1212 psi

Formation

.832 psi

Test 5 Depth 2070' Pressure only

Hydrostatic

1042

Formation

826 psi

Depth 2047 Pressure and attempted fluid sample

Hydrostatic

1030 psi

Formation

816 psi

Pulled out of hole - check chambers for fluid. 800 cc. of Drilling mud/mud filtrate.

RW 2.0 at 80°

No pressure and no gas.

Tool plugged by sand.

Same tool - cleaned out sand and re-ran tool.

CONFIDENTIAL

FORMATION TEST SUMMARY

CONFIDENTIAL

Run 3

Test 7 Depth 2247 Pressure only

Hydrostatic Formation 1126 psi 927 psi

Test 8

Depth 2200 Pressure only

Hydrostatic

1106 psi

Formation

878 psi

Test 9

Depth 2177 Pressure and attempted fluid sample

Hydrostatic

1096 psi

Formation

868 psi

The pressure never dropped - we opened both chambers P/C to check samples; tool plugged with sand - had to change out tools to new tool.

Run 4 Re-ran in with new tool.

Test 10 Depth 2110 Pressure only

Hydrostatic

1064 psi

Formation

840 psi

Test 11 &

Depth 2107 Pressure and attempted fluid sample.

Test 12

Hydrostatic

1060 psi/1062

Formation

838 psi/840

Test 11 - started to pull off before fluid sample so reset and got test 12.

Long drawdown, Large chamber pressure 176 psi Small chamber pressure 89 psi - never built up No fluid or gas recovered - released Welex per Baker.

DIVISION OF OIL AND GAS

Report on Operations

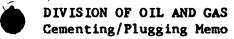
Kwang U. Park					
ARCO OIL & GAS CO.			Bakersfield.		Calif.
P. O. Box 147			<u>fav 11. 1987</u>		
Bakersfield, CA 93302					
•	*				
			•		
Your operations at well "Lieber" 1			API No. 029-79	9821	
Sec. 28, T25S, R25E, M.D. B.& M					
were witnessed on	Richard	Rose		, 1	representative of
the supervisor, was present from 2100 to Mr. Roy Schillings	o <u>2130</u>	Th	ere were also pre	esent	
Present condition of well: 9 5/8" cement 8 881'-773', and 30'-5'.	23'. TI	4201'.	Plugged with	n cement	1970'-1569'
	<i>i</i>	· · · · · · · · · · · · · · · · · · ·			
The operations were performed for the purpose of	of <u>abar</u>	ndonment.			
DECISION: THE PLUGGING OPERATIONS A	S WITNES	SED AND	REPORTED ARE	APPROVE	D.

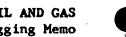
RR:jk

M. G. Mefferd, State Oil & Gas Superviso

By Mary

E. A. Welge, Deputy Supervisor





Opera	tor_	Asc	0				We:	11 N	o	Lieber	* **		:	
API N	10 <i>C</i> 1 <i>Kpr</i>	n (7982	<u> </u>	Co	unty K	Sec	<u> </u>	<u>~</u> _;	T <u>. 255</u> On 4	_, ! - 29	R. <u>25E</u> 7-87	_, <u>MD</u>	B&M
Mr. I	?. <i>Ro</i> s	e	. /	,	rep	resenta	tive of the	e su	pervis	or was	pres	ent fro	m 2101	to <u>2/3/</u>).
There	were	also	prese	nt <u>Mr</u>	150	y Schi	Mincye	,		110 -				
Casin	g rec	ord o	of well	•	3	con.	823		7.00	720	71		1 %	سے د د
+7	Ugg	ed	, "	cem,		1970	'- 156	9'	, 8 °	6:1.	. [7	<u>3', 9</u>	nd o	<u>0 -5.</u>
														
The o	perat	ions	were p	erforme	l fo	r the p	urpose of_	H	<u> </u>			· ,		
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L	Th	e loc	ation	and hard	lne s	s of the	e cement p	ug (<u> </u>		<u> </u>	is app	roved.	
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Hole size:" fr" to" to" to"														
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Size	WE.	Тор	Bot	tom Da	te	MO-De	oth Volu	me /	Annulu	s Casing	5 .	lway	Press.	Perfs.
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Casin	g/tub	ing r	ecover	ed:	"	shot/cu	ıt at	ļ, "	16		_' r	ulled	fr	
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Junk	(in h	ole):						-, ,						
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Ceme	nt Pl	ugs	Pla	acing	1	Placing	Witnessed		· · · · · ·	Тор	Witn	essed		
Date	Sx./		MO &	Depth		Time	Engr.	De	epth 1	Wt/Samp1	e I	ate & !	Fime	Engr.
1/28	145	'خ×،	D.P.	1970		800	PR,JP, MG	15	69: 1	ok -	- اد	1/28	400	RR
4/28	56	5 5x.	<u> </u>	881		1000	111	77	13' .	·		rpt		RR
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PERMIT TO CONDUCT WELL OPERATIONS

(field code)

			 (new pool code)
Kwang U. Park			tiew poor code)
ARCO OIL & GAS COMPANY			(old pool code)
P. O. Box 147	•	<u>Bakersfield</u>	, California
Bakersfield, CA 93302		August 27, 1987	
Your proposal toa	bandon well	Lieber" 1	
A.P.I. No. <u>029-79821</u> , Section.	<u>28</u> , T. <u>25</u> S	5 , R. <u>25E</u> , MD	_ B. & M
	received 8/24/87	has been examined in conju	pool,
filed in this office.	,	nas been exammed in conju	nction with records
DECISION: THE PROPOSAL, COVERING WORLD PRIOR AGREEMENT, IS APPROVED.	K ALREADY COMPLET	ED IN ACCORDANCE WIT	гн .

i de la companya de l

NOTES:

- 1. THIS DIVISION SHALL BE NOTIFIED TO INSPECT the cleaned-up well site before final approval of abandonment will be issued.
- 2. All casings must be removed from at least 5 ft. below ground level.

Blanket Bond

Engineer <u>W. F. White</u>	M. G. MEFFERD, State Oil and Gas Superviso
Phone <u>(805) 322-4031</u>	By Elle July
WFW/kr	E. A. WELGE, Puty Supervisor

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.

FORM OG108 (7/80)



RECEIVED

AUG 2 4 1987

DIVISION OF OIL & GAS BAKERSFIELD

Notice of Intention to Abandon Well

This notice must be given at least five days before work is to begin.

	FC	FOR DIVISION USE ONLY					
•	CARDS	BOND	FORMS OGD114 OGD12				
DIVISION OF OIL AND GAS		BI	735 A				

In comp	iance with Section	n 3229, Division 3,	Public Resour	ces Code, notic	ــــــا e is her	eby given th	at it is our intention
to abandon	well	LIEB	ER_#1			, API No.	029-79821,
Sec. 28	r. 25S, R. 25E,	MD B. & M., _	WILDCAT	Fi	eld, _		County.
commencin	g work on	4-28-87	, 19	-,			
The presen	t condition of the	well is:		Additiona	ıl data	for dry hole	(show depths):
1. Total de	pth 4201' PE	BD: 1550'	,	5. Oil or gas	shows	S	
2. Complet	e casing record, in	ncluding plugs and	perforations				,
	'' 68# K-55 BT	CC conductor as	t 40' (GLE)				
(All d	epths KB = 20	above GL)		6. Stratigrap	ohic ma	arkers	
3. Last pro or 4. Last inje	(Date) (C	Oil, B/D) (Gas, Mcf/D		7. Formation 8. Base of fr		Ū	•
The propos	ed work is as follo						·
1. RIH DOG	OEDP to 1970 to witness.	'. Mix and pu	ump 145 sx	Class G + 3	3% Ca	C1 ₂ . woc	. RIH and tag TO
		ix and pump 56 ground level.	sx Class	G + 3% CaC	2.	POOH. Cu	t off 9-5/8"
3. Set	surface plug	5' - 25' with	n 19 sx Cla	ss G + 3% (CaCl ₂	•	
4. Wel	d on steel pl	ate. RDMO.				·	
		to P & A rece					.1
	4550 Califo	_		ARCO Oil ar Div. of Atl	id Gas	s Company	
Address		Street)		DIV. OI ALI		ame of Operator	
15:	Bakersfield		B:	/ <u>K</u>		U. Park	
(City	/)	(State)	(Zip)		/ /	(Print Name)	a/ 1/2

(805)

(Number)

Telephone Number.

DIVISION OF OIL AND GAS

Report on Operations

Kwang U. Park			
ARCO OIL & GAS CO.		Bakersfield.	Calif.
P. O. Box 147		April 23, 19	87
Bakersfield, CA 93302			
	· · · · · · · · · · · · · · · · · · ·		
		•	
Your operations at well "Lieber" 1		API No029-7	9821
Sec28 , T25S, R25E M.D. B.& M	F	ield, in Kern	
were witnessed on 4-20-87	F. Leeson, J. J		mache, representative sof
the supervisor, was present from 0400	to0800	There were also pre	sent
R. Shilling, operator representati	ive.	<u> </u>	
Present condition of well: 9 5/8" cement	823' TD 825'	Plug with ceme	nt 823'-744'
	V Parity		
The operations were performed for the purpo and installation.	se of <u>testing</u> the	e blowout preven	tion equipment
DECISION: THE BLOWOUT PREVE CASING ARE APPROV		AND ITS INSTALL	ATION ON THE 9 5/8"
Deficiencies noted & repaired:			
1. Bleed line not staked.			
2. N ₂ bottle leak.			
3 Stand Dine procesure course mand	la		

FL/JP/MTG:jk

M. (. Ме1	rerd.	State	e 011	& Gas	<u>Sup</u> erv	isc
Bv:	60	ملک	3				
<u> </u>) WE				

702	⁷ 63)	OWOUT P	DIVISION	OF OIL	. AND GAS			•			1/27	200
Operator ARCo M	13 Gas Co	Well Light	REVENT	TION	EQUIPM Fie	ENT	MEMO	o of 25/2	/ 25 Co	T _ ounty	70 /. Kern	~U]
1st 4 22 87	FL, TP,	ineer MTG	0400	Time to <u>)∕x</u>	700 <u> </u>	<i>Β'</i> , Ot	perator/	s Rep.		PURATO	Title R	БР.
Date 1st 4 2xx 87 2nd Casing record of well:	95/8 CER	1823 T	D 825	- to-	w/comer		23-	744				
	The blowout pro	evention equi	ipment and	id its ins	tallation on	the _	RE	. "casing	D 7	17 1	M 0 :	
Proposed Well Opns: Hole size: 그건/닉	PILLING fr0		to 82:	.MPSP:_ 3′	1-	psi ''	to	OPE CL	ASS: 1	<u>'</u> ', ~	to	
CASING RECORD (E Size Weight(s)		Shoe at	ONLY) CP at	370 :	sx G 3%		1	a. l t/		Casing		nulus
В	OP STACK	823		a	\ b	a,	/b		TES	ገዛዛ T DAT	Α	+
Symb. Sz. Mtr. or	10del Size Type (in.) Nu 135人			Gal. to Close	Rec.Time (Min.)	Calc. Ou		psi Dro to Clos		cs. to Close	Test Date	
R JAN SKOTTIN C	روف	7										1500
ACTUATIN	C SVSTEM				_ AUXILI	A DV E	OL IIDA	4CAIT		,		
Accum. Unit(s) Wkg. Total Rated Pump Out	Press. 2900	_ gpm			AUAILI	No.	Sz.	Rated	<u></u>	nnectio	, ·	1
Distance From Well B	ore <u>50</u>	ft.	Fill-Up Lir Kill Line	ne			(in.)		Weld	Flan.	Thra.	2.72
1 KOOMEY	O gal.	000 psi 🗸	Contro	ol Valve			9	J. 590		7	\	2000
CONTROL STATIO Manif. at accum. u				Valve(s		1	3	<i>> > > > > > > > > ></i>)	7/	2100
Remote at Drlr's. s Other:	tn. 🔪 🕠	7	Contro Pressur	l Valve(re Gaug	e	10		,)	77	7	2000
S N2 Cyl No: Type Other:	e: 1 2000	Vkg. Fl. // gal. // gal. //	Adjusta Bleed L Upper Ke			<u> </u>	943	J 092		7/	¥:	2000
	3 2006	gal. >	Lower Ke Standpipe	elly Cock e Valve	k .		472	J.000				2000
HOLE FLUID	6	gal. 🥆	Standpipe Pipe Safet Internal P	ty Valve	;		4/2	3000 3000				-
MONITORING EQUI	Aud.	arm Class		KS:	DEFICION No BOHI	AT 1	Bleep	l'line R	eparre	<u> </u>	ked re	1
Pit Level Indicator Pump Stroke Count Pit Level Recorder	er \	B			STAND F	,	1		7	eoOls	repair	*
Flow Sensor Mud Totalizer Calibrated Trip Tan				-	12015	(1	<i>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</i>		77,740			
Other:				Hole Flui	2 1		Weig	ht		Storage	Pits	

OGD9 (3/83/DWRR/3M)

PERMIT TO CONDUCT WELL OPERATIONS

	THE WOOD OF SERVICE
ومرزون	(field code)
:	
	area code)
,	
	- 00

	i . H			(area code) 00
Kwang U. Park				(new pool code)
ARCO OIL & GAS COMPANY		•		(old pool code)
P. O. Box 147 Bakersfield, CA 93302			Bakersfield March 3, 198	, California
A D I No 020 70021	drill	well_	"Lieber" l	, ,
		, T. <u>258</u>	area	MD B. & M., pool,
Kern County, dated 2/24/8 filed in this office.	, received_	ha	s been examined in	conjunction with records
DECISION: THE PROPOSAL IS APPROVED	PROVIDED	THAT:		

- 1. Drilling fluid of a quality and in sufficient quantity to control all subsurface conditions in order to prevent blowouts shall be used.
- 2. Sufficient cement shall be pumped back of the 13 3/8" & 9 5/8" casings to fill to the surface.
- 3. Sufficient cement shall be used to fill the annular space behind the $5\ 1/2"$ casing to at least 500' above oil and gas zones and excessive pressure intervals and to at least 100' above the base of fresh water.
- 4. The specified blowout prevention equipment, as defined by DOG Manual MO7, is considered minimal and shall be installed and maintained in operating condition at all times: On the 9 5/8" casing, DOG Class III, 2M and hole fluid monitoring equipment B.
- 5. THIS DIVISION SHALL BE NOTIFIED TO WITNESS: a test of the blowout prevention equipment prior to drilling out the shoe of the 9 5/8" casing.
- 6. No change in the proposed program shall be made without prior approval of this Division.

NOTES:

The Division will monitor the monthly production of this well for a period of 6 months, and if anomalous water production is indicated, remedial action will be ordered.
 Confidential status is granted for two years per Public Resources Code, Section 3234.

Blanket Bond

Engineer <u>Dan Tuttle</u>

M. G. MEFFERD, State Oil and Gas Supervisor

Phone <u>(805) 322-4031</u> DT/kr

A copy of this permit and the proposal must be posted at the well site prior to commencing operations.

Records for work done under this permit are due within 60 days after the work has been completed or the operations have been suspended.



FEB 271937

Notice of Intention to Drill New Well

DIVISION OF OIL & GAS

						BAKESFIELD
	C.E.Q.A.	INFORMATION			FOR DIVISION US	SE ONLY
EXEMPT [NEG. DEC.		OCUMENT NO	MAD		OND FORMS 5
CLASS	S.C.H. NO	S.C.H. NO [SY LOCAL X	2/2/		$\frac{114}{7}$ $\frac{121}{87/10}$
	See R	leverse Side		<u> </u>	1/84	
In compliance	e with Sec	etion 3203, Divisio	on 3, Public	Resources Code	, notice is herel	by given that it is our
intention to con	nmence dri	lling well Lie	ber ≱l	, well type	Gas, AP	I No. <u>029- 7982</u> (Assigned by Division)
Sec. 28, T. 2	5S, R.25E	B. & M.	, <u>Wilc</u>	lcat	Field, <u>Ke</u> ı	cn County.
Legal description	on of miner	al-right lease, con	sisting of	77.88 acres	s, is as follows:_	(Attach map or plat to scale)
		ection 28:				
		·				
		ases coincide? Yes and map or plat t		If answer	is no, attach le	gal description of both
Location of we	<u>11 660</u>	_feet <u>South</u> a	long section	n/property line	and <u>2000</u>	feet East (Direction)
at right angles t	o said line	•			er of section/p	roperty or
					(Gross out	cone)
Is this a critica	l well acco	ording to the defin	nition on the	e reverse side of	this form?	Yes No X
If well is to be	directional	ly drilled, show pr	oposed coor	dinates (from sur	face location) a	t total depth:
The Parket		teet(Directi	on)	dd		feet(Direction)
Elevation of gro	und above	sea level 287.		•	,	
All depth measu	rements tak	en from top of	kelly	bushing	that is 10	feet above ground.
in doptii moasa		(De	rrick Floor, Rotary	/ lable, or Kelly Bushing)	
		PROPO	SED CAS	ING PROGRA	.M	, · · ·
SIZE OF CASING INCHES API	WEIGHT	GRADE AND TYPE	тор	воттом	CEMENTING DEPTHS	CALCULATED FILL BEHIND CASING (Linear Feet)
13-3/8"	54.5#	K-55 BTC	10'	50'	50'	40' (42 sx)
9-5/8"	36#	K-55 STC	10'	810'	810'	800' (449 sx)
5-1/2"	17#	K-55 LTC	10'	4210'	4210'	4200' (1254 sx
	(A complete	drilling program is pr	eferred and ma	ay be submitted in li	eu of the above pro	gram.)
ntended zone(s)) M11]	ina at 3608	' (1875	ngi)_		_{th} 3608'
of completion	(Name, de	ina at 3608 epth, and expected pressu	re)	Estimated	true vertical dep	th
It is unde		if changes in this		ne necessary we	are to notify yo	u immediately.
Name of Operator	ARCO Oi	l and Gas Co	ompany	Type of Organization	Corporation, Partners	hip, Individual, etc.)
Div. of A	tlantic	Richfield	Co.		oration	<u> </u>
Address 4201 Stine	e Road			City Bake:	rsfield	Zip Code 93313
Telephone Number 1 833-4060			5 124/87	Signature/ Kevana U	Park	Date 2/24/87

This notice and indemnity or cash bond shall be filed, and approval given, before drilling begins. If operations have not commenced within one year of receipt of the notice, this notice will be considered cancelled.

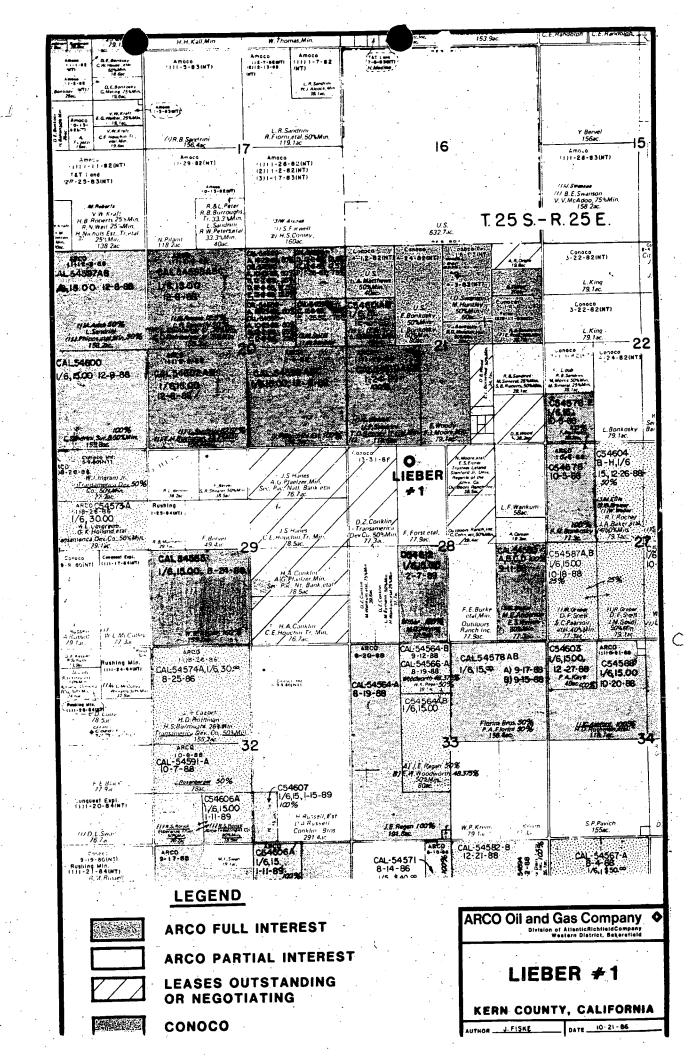


EXHIBIT "B"

FRANCES KRAFT 25%

BANK OF AMERICA. TRUSTEE 25%

TRANSAMERICA MINERALS 50%

ELLEN RUTH LIEBER 20%

F. RUTH FORST TRUST 20%

VERA LIEBER STONE 20%

MARY LIEBER GUNDERSON 20%

RICHARD E. LIEBER 10%

CLEMENT E. LIEBER 10%

77.27 ACRES

77.88 ACRES

ARCO Oil and Gas Company

Division of AtlanticRichfieldCompany Western District, Bakersfield

ARCO-LIEBER UNIT

T 25 S R 25 E, MDB&M SECTION 28: NW1/4 KERN COUNTY, CALIFORNIA

J. FISKE

2-12-87

DRAFTSMAN L. YOUNG

FILE #

